Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID NO:3

```
SeqID43rc    (     1) gtcattctcctaagaagctattaaaatcacatgggggatagcactactaaaattaattttta
seqID:3      (     1) ------------------------------------------------------------


                                             ++++++++++++ ++++++++++
SeqID43rc    (    61) cacattagggctcttccatataggcaGCTCTCCCTAGCATTATTCACTGTaccctcgatc
seqID:3      (     1) -----------------------GCTCTCCCTAGCGTTATTCACTGT----------


SeqID43rc    (   121) gtactccgcgtggcctcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   181) cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   241) tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   301) ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   361) agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   421) aagaagagtcacagtgggctgcttctttttgtctctgcggcaaaggctgagcttcatcagt
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   481) cttttttcttttttgtcctttttaggctctgttggtgggaatgtttttgtatgcgtcaatgtg
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   541) cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:3      (    25) ------------------------------------------------------------


SeqID43rc    (   601) tccatgataagtcagccatgttcccgaaggtgtgacttccatgccaatgcgtgacattcc
seqID:3      (    25) ------------------------------------------------------------
```

```
SeqID43rc    (    661)  aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (    721)  tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (    781)  cccaaatgcttgagtgacgttgtactgttttgtggcagtacgtttttggcgaggcttttt
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (    841)  agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (    901)  agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (    961)  accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (   1021)  tcttgaattaccgcgactacgtgatgaggagcgagaagaggcttgactgccgcctctgct
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (   1081)  tccctctgcgtagaagccttttggcaatgttgttccttgaggaagttgtagcacggtggc
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (   1141)  agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (   1201)  agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (   1261)  agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:3      (     25)  ------------------------------------------------------------


SeqID43rc    (   1321)  acgaactcgtcgggtagctcttcggta
seqID:3      (     25)  ---------------------------
```

Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID NO:5

```
SeqID43rc    (      1)  gtcattctcctaagaagctattaaaatcacatggggatagcactactaaaattaattttta
seqID:5      (      1)  ------------------------------------------------------------


                                                  ++++++++++++ ++++++++++
SeqID43rc    (     61)  cacattagggctcttccatataggcaGCTCTCCCTAGCATTATTCACTGtaccctcgatc
seqID:5      (      1)  -------------------------GCTCTCCCTAGCGTTATTCACTG-----------


SeqID43rc    (    121)  gtactccgcgtggcctcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    181)  cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    241)  tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    301)  ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    361)  agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    421)  aagaagagtcacagtgggctgcttcttttgtctctgcggcaaaggctgagcttcatcagt
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    481)  ctttttcttttgtccttttaggctctgttggtgggaatgttttgtatgcgtcaatgtg
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    541)  cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:5      (     24)  ------------------------------------------------------------


SeqID43rc    (    601)  tccatgataagtcagccatgttcccgaaggtgtgacttccatgccaatgcgtgacattcc
seqID:5      (     24)  ------------------------------------------------------------
```

```
SeqID43rc    (   661)  aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (   721)  tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (   781)  cccaaatgcttgagtgacgttgtactgttttgtggcagtacgtttttggcgaggcttttt
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (   841)  agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (   901)  agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (   961)  accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (  1021)  tcttgaattaccgcgactacgtgatgaggagcgagaagaggcttgactgccgcctctgct
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (  1081)  tccctctgcgtagaagccttttggcaatgttgttccttgaggaagttgtagcacggtggc
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (  1141)  agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (  1201)  agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (  1261)  agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:5      (    24)  ------------------------------------------------------------


SeqID43rc    (  1321)  acgaactcgtcgggtagctcttcggta
seqID:5      (    24)  ---------------------------
```

Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID
NO:7


```
SeqID43rc    (     1) gtcattctcctaagaagctattaaaatcacatggggatagcactactaaaattaatttta
seqID:7      (     1) ------------------------------------------------------------


                                        +++++++++++++++++++++++
SeqID43rc    (    61) cacattagggctcttccatataggcaGCTCTCCCTAGCATTATTCACTGTaccctcgatc
seqID:7      (     1) -------------------------GCTCTCCCTAGCATTATTCACTGT----------


SeqID43rc    (   121) gtactccgcgtggcctcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   181) cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   241) tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   301) ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   361) agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   421) aagaagagtcacagtgggctgcttcttttgtctctgcggcaaaggctgagcttcatcagt
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   481) ctttttctttttgtccttttaggctctgttggtgggaatgttttgtatgcgtcaatgtg
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   541) cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:7      (    25) ------------------------------------------------------------


SeqID43rc    (   601) tccatgataagtcagccatgttcccgaaggtgtgacttccatgccaatgcgtgacattcc
seqID:7      (    25) ------------------------------------------------------------
```


1

```
SeqID43rc     (    661)  aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (    721)  tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (    781)  cccaaatgcttgagtgacgttgtactgttttgtggcagtacgtttttggcgaggcttttt
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (    841)  agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (    901)  agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (    961)  accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (   1021)  tcttgaattaccgcgactacgtgatgaggagcgagaagaggcttgactgccgcctctgct
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (   1081)  tccctctgcgtagaagccttttggcaatgttgttccttgaggaagttgtagcacggtggc
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (   1141)  agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (   1201)  agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (   1261)  agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:7       (     25)  ------------------------------------------------------------


SeqID43rc     (   1321)  acgaactcgtcgggtagctcttcggta
seqID:7       (     25)  ---------------------------
```

Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID NO:9

```
SeqID43rc    (      1)  gtcattctcctaagaagctattaaaatcacatggggatagcactactaaaattaattttta
seqID:9      (      1)  ------------------------------------------------------------


                                         +++++++++++++++++++++++++
SeqID43rc    (     61)  cacattagggctcttccatataGGCAGCTCTCCCTAGCATTATTCactgtaccctcgatc
seqID:9      (      1)  ----------------------GGCAGCTCTCCCTAGCATTATTC----------------


SeqID43rc    (    121)  gtactccgcgtggcctcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    181)  cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    241)  tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    301)  ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    361)  agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    421)  aagaagagtcacagtgggctgcttcttttgtctctgcggcaaaggctgagcttcatcagt
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    481)  cttttcttttgtcctttttaggctctgttggtgggaatgttttgtatgcgtcaatgtg
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    541)  cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:9      (     24)  ------------------------------------------------------------


SeqID43rc    (    601)  tccatgataagtcagccatgttcccgaaggtgtgacttccatgccaatgcgtgacattcc
seqID:9      (     24)  ------------------------------------------------------------
```

```
SeqID43rc    (   661) aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (   721) tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (   781) cccaaatgcttgagtgacgttgtactgtttttgtggcagtacgtttttggcgaggcttttt
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (   841) agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (   901) agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (   961) accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (  1021) tcttgaattaccgcgactacgtgatgaggagcgagaagaggcttgactgccgcctctgct
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (  1081) tccctctgcgtagaagccttttggcaatgttgttccttgaggaagttgtagcacggtggc
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (  1141) agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (  1201) agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (  1261) agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:9      (    24) ------------------------------------------------------------


SeqID43rc    (  1321) acgaactcgtcgggtagctcttcggta
seqID:9      (    24) ---------------------------
```

2

Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID NO:10

```
SeqID43rc   (     1)  gtcattctcctaagaagctattaaaatcacatggggatagcactactaaaattaatttta
seqID:10    (     1)  ------------------------------------------------------------


                                                                        ++++++
SeqID43rc   (    61)  cacattagggctcttccatataggcagctctccctagcattattcactgtacccTCGATC
seqID:10    (     1)  ----------------------------------------------------------TCGATC


                      +++++++++++++++
SeqID43rc   (   121)  GTACTCCGCGTGGCCTcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:10    (     7)  GTACTCCGCGTGGCCT--------------------------------------------


SeqID43rc   (   181)  cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   241)  tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   301)  ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   361)  agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   421)  aagaagagtcacagtgggctgcttcttttgtctctgcggcaaaggctgagcttcatcagt
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   481)  ctttttctttttgtcctttttaggctctgttggtgggaatgttttgtatgcgtcaatgtg
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   541)  cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:10    (    23)  ------------------------------------------------------------


SeqID43rc   (   601)  tccatgataagtcagccatgttcccgaaggtgtgacttccatgccaatgcgtgacattcc
seqID:10    (    23)  ------------------------------------------------------------
```

```
SeqID43rc    (    661)   aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (    721)   tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (    781)   cccaaatgcttgagtgacgttgtactgttttgtggcagtacgttttggcgaggcttttt
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (    841)   agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (    901)   agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (    961)   accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (   1021)   tcttgaattaccgcgactacgtgatgaggagcgagaagaggcttgactgccgcctctgct
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (   1081)   tccctctgcgtagaagccttttggcaatgttgttccttgaggaagttgtagcacggtggc
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (   1141)   agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (   1201)   agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (   1261)   agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:10     (     23)   ------------------------------------------------------------


SeqID43rc    (   1321)   acgaactcgtcgggtagctcttcggta
seqID:10     (     23)   ---------------------------
```

2

Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID NO:12

```
SeqID43rc    (      1) gtcattctcctaagaagctattaaaatcacatggggatagcactactaaaattaatttta
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (     61) cacattagggctcttccatataggcagctctccctagcattattcactgtaccctcgatc
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    121) gtactccgcgtggcctcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    181) cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    241) tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    301) ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    361) agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    421) aagaagagtcacagtgggctgcttcttttgtctctgcggcaaaggctgagcttcatcagt
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    481) ctttttctttttgtccttttttaggctctgttggtgggaatgttttgtatgcgtcaatgtg
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    541) cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:12     (      1) ------------------------------------------------------------


SeqID43rc    (    601) tccatgataagtcagccatgttcccgaaggtgtgacttccatgccaatgcgtgacattcc
seqID:12     (      1) ------------------------------------------------------------
```

```
SeqID43rc      (    661)  aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:12       (      1)  ------------------------------------------------------------


SeqID43rc      (    721)  tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:12       (      1)  ------------------------------------------------------------


SeqID43rc      (    781)  cccaaatgcttgagtgacgttgtactgttttgtggcagtacgtttttggcgaggcttttt
seqID:12       (      1)  ------------------------------------------------------------


SeqID43rc      (    841)  agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:12       (      1)  ------------------------------------------------------------


SeqID43rc      (    901)  agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:12       (      1)  -----------------------------------------------------------


SeqID43rc      (    961)  accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:12       (      1)  ------------------------------------------------------------


                                          ++++++++++++++++++++++
SeqID43rc      (   1081)  tccctctgcgtaGAAGCCTTTTGGCAATGTTGTTccttgaggaagttgtagcacggtggc
seqID:12       (      1)  -----------GAAGCCTTTTGGCAATGTTGTT---------------------------


SeqID43rc      (   1141)  agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:12       (     23)  ------------------------------------------------------------


SeqID43rc      (   1201)  agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:12       (     23)  ------------------------------------------------------------


SeqID43rc      (   1261)  agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:12       (     23)  ------------------------------------------------------------


SeqID43rc      (   1321)  acgaactcgtcgggtagctcttcggta
seqID:12       (     23)  ---------------------------
```

2

Alignment of reverse complementary strand of SEQ ID NO:43 (shown as SeqID:43r) and SEQ ID NO:15

```
SeqID43rc    (     1)  gtcattctcctaagaagctattaaaatcacatgggggatagcactactaaaattaatttta
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (    61)  cacattagggctcttccatataggcagctctccctagcattattcactgtaccctcgatc
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   121)  gtactccgcgtggcctcgatgaaaatgtggtggctctttcaagtcctccctaatgttaca
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   181)  cattgattaaagattgctatgtgagattaaagttaactaaacctacttgtgctgtttagt
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   241)  tacgagaattcattctgcacaagagtagactatgtatcgtaaacggaattgcgaaaacgt
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   301)  ttacatagcccatctgccttgtgtggtcatcatgagtgtttatgcctgagttgaatcagc
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   361)  agaagctccactcatggaattttgaagttgtctggagaaatcatccatgtcagccgcagg
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   421)  aagaagagtcacagtgggctgcttcttttgtctctgcggcaaaggctgagcttcatcagt
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   481)  cttttcttttgtcctttttaggctctgttggtgggaatgttttgtatgcgtcaatgtg
seqID:15     (     1)  ------------------------------------------------------------


SeqID43rc    (   541)  cttgttcagcagtatgacgttgtctttgaattgtggatctttgtcatccaatttaatggc
seqID:15     (     1)  ------------------------------------------------------------


                                 +++++++++++++++++++
SeqID43rc    (   601)  tccatgatAAGTCAGCCATGTTCCCGAAggtgtgacttccatgccaatgcgtgacattcc
seqID:15     (     1)  --------AAGTCAGCCATGTTCCCGAA--------------------------------
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1

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SeqID43rc    (  661)  aaagaatgcagaggcacttggagcaaattgtgcaatttgcggccaatgtttgtaatcagt
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    (  721)  tccttgtctgattaggtcttggtccccgaaatttccttgggtttgttctggaccacgtct
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    (  781)  cccaaatgcttgagtgacgttgtactgttttgtggcagtacgtttttggcgaggcttttt
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    (  841)  agatgcctcagcagcagatttcttagtgacagtttggccttgttgttgttggcctttacc
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    (  901)  agaaactttgctctcaagctggttcaatctgtctagcagcaatagcgcgagggcagtttc
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    (  961)  accacctccgctagccattcgagcaggagaatttcccctactgctgccaggagttgaatt
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    ( 1021)  tcttgaattaccgcgactacgtgatgaggagcgagaagaggcttgactgccgcctctgct
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    ( 1081)  tccctctgcgtagaagccttttggcaatgttgttccttgaggaagttgtagcacggtggc
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    ( 1141)  agcattgttattaggattgcgggtgccaatgtggtctttgggtgtattcaaggctccctc
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    ( 1201)  agttgcaacccatacgatgccttctttgttagcgccgtagggaagtgaagcttctgggcc
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    ( 1261)  agttcctaggtaatagaagtaccatctggggctgagctctttcattttgccgtcaccacc
seqID:15     (   21)  ------------------------------------------------------------


SeqID43rc    ( 1321)  acgaactcgtcgggtagctcttcggta
seqID:15     (   21)  ---------------------------
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